**Fig. 1A**

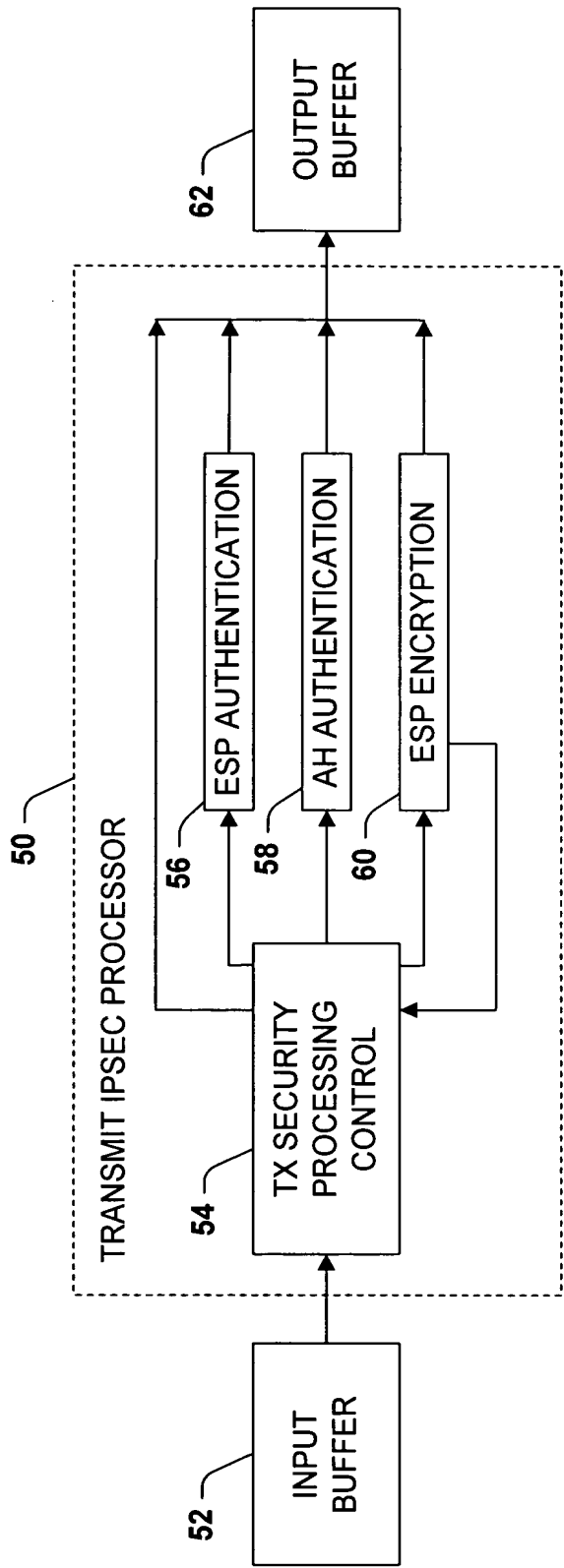
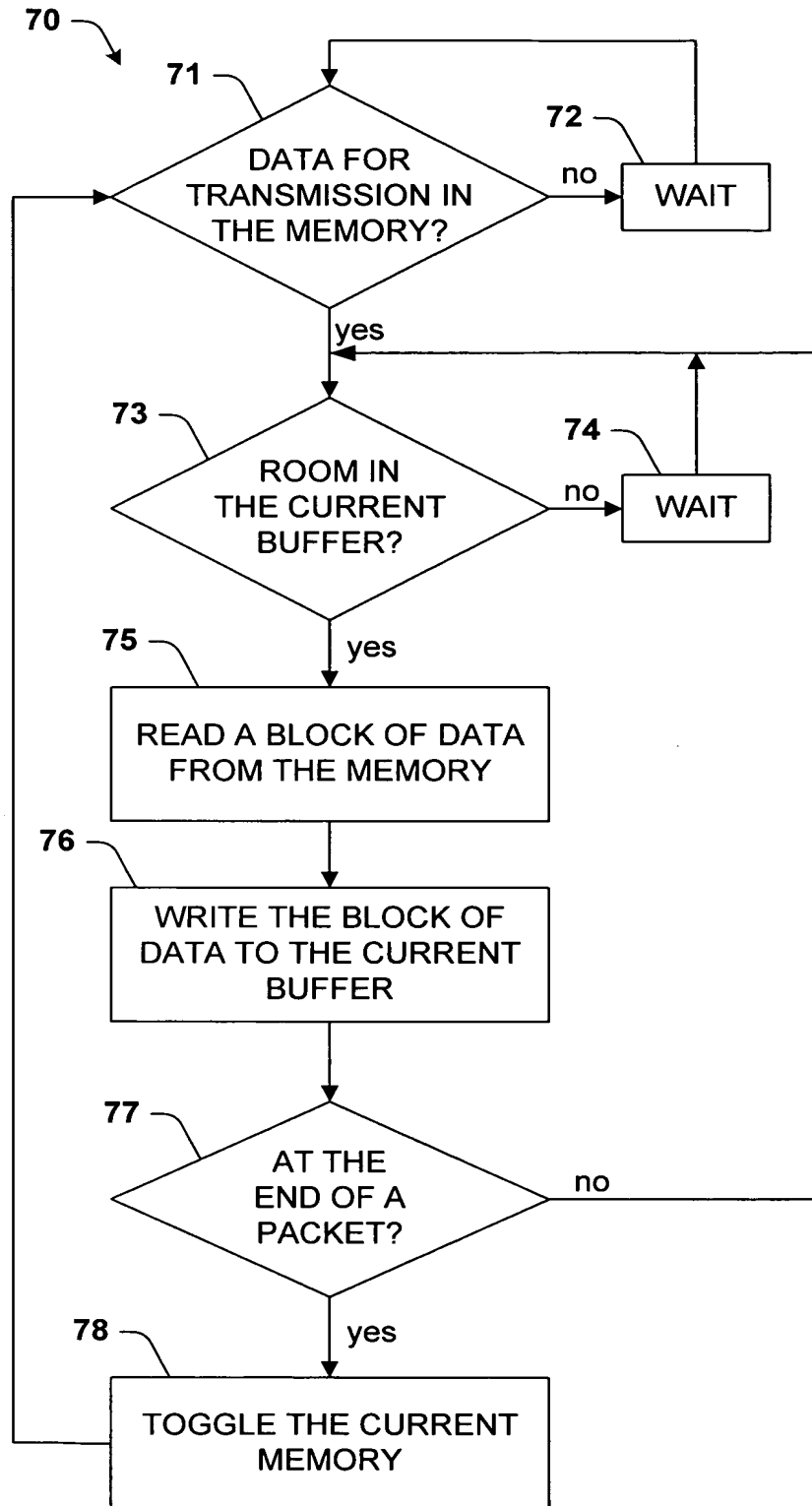
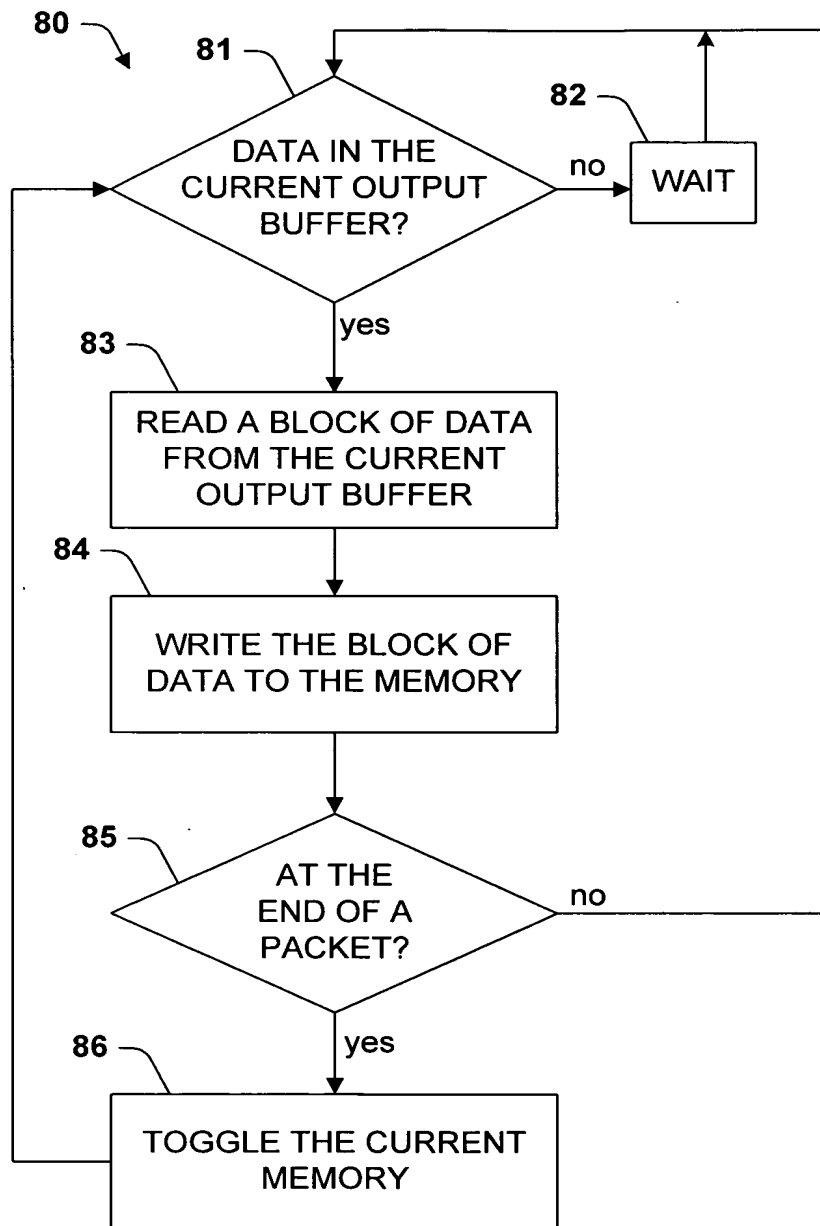


Fig. 1B

**Fig. 1C**

**Fig. 1D**

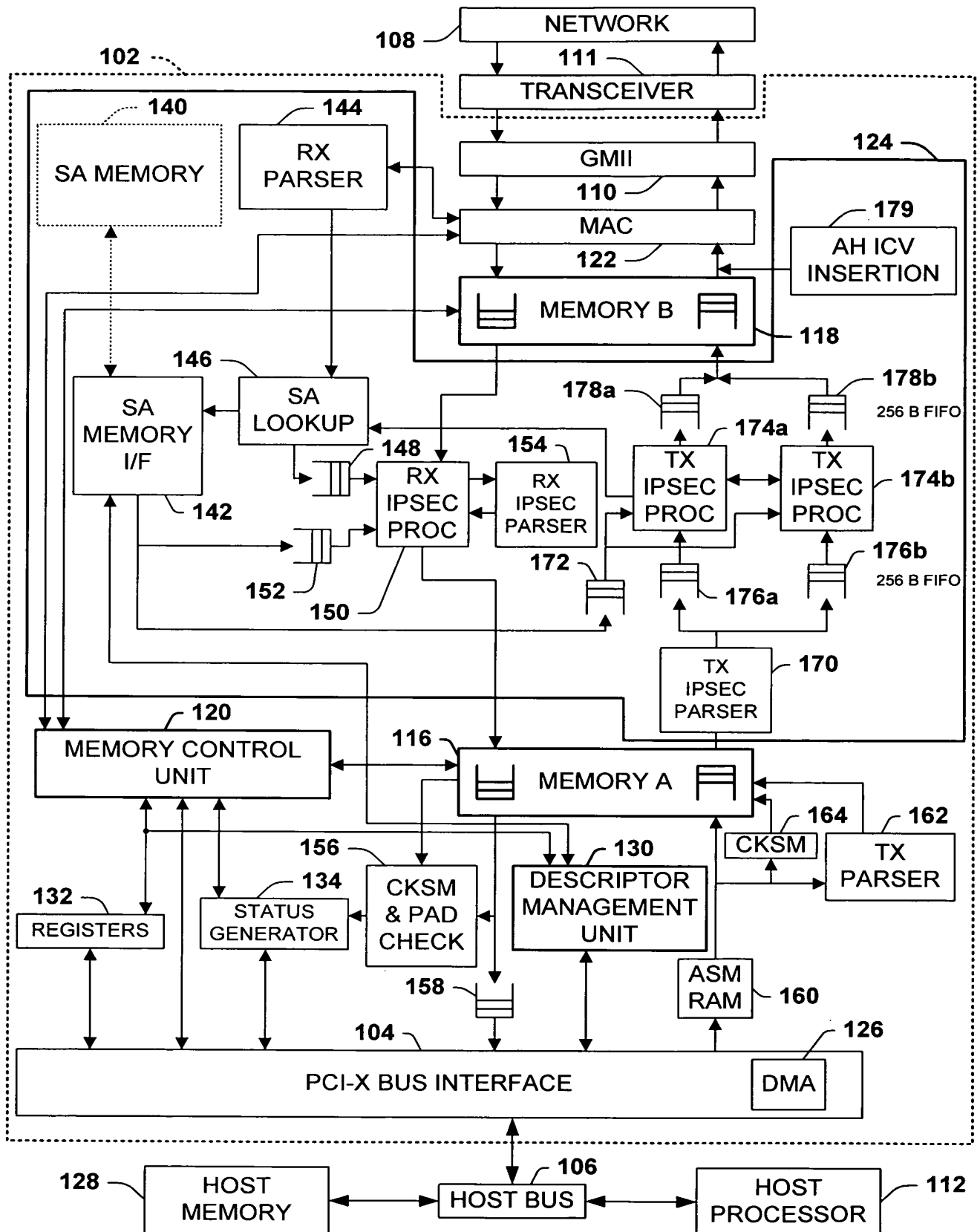


Fig. 2

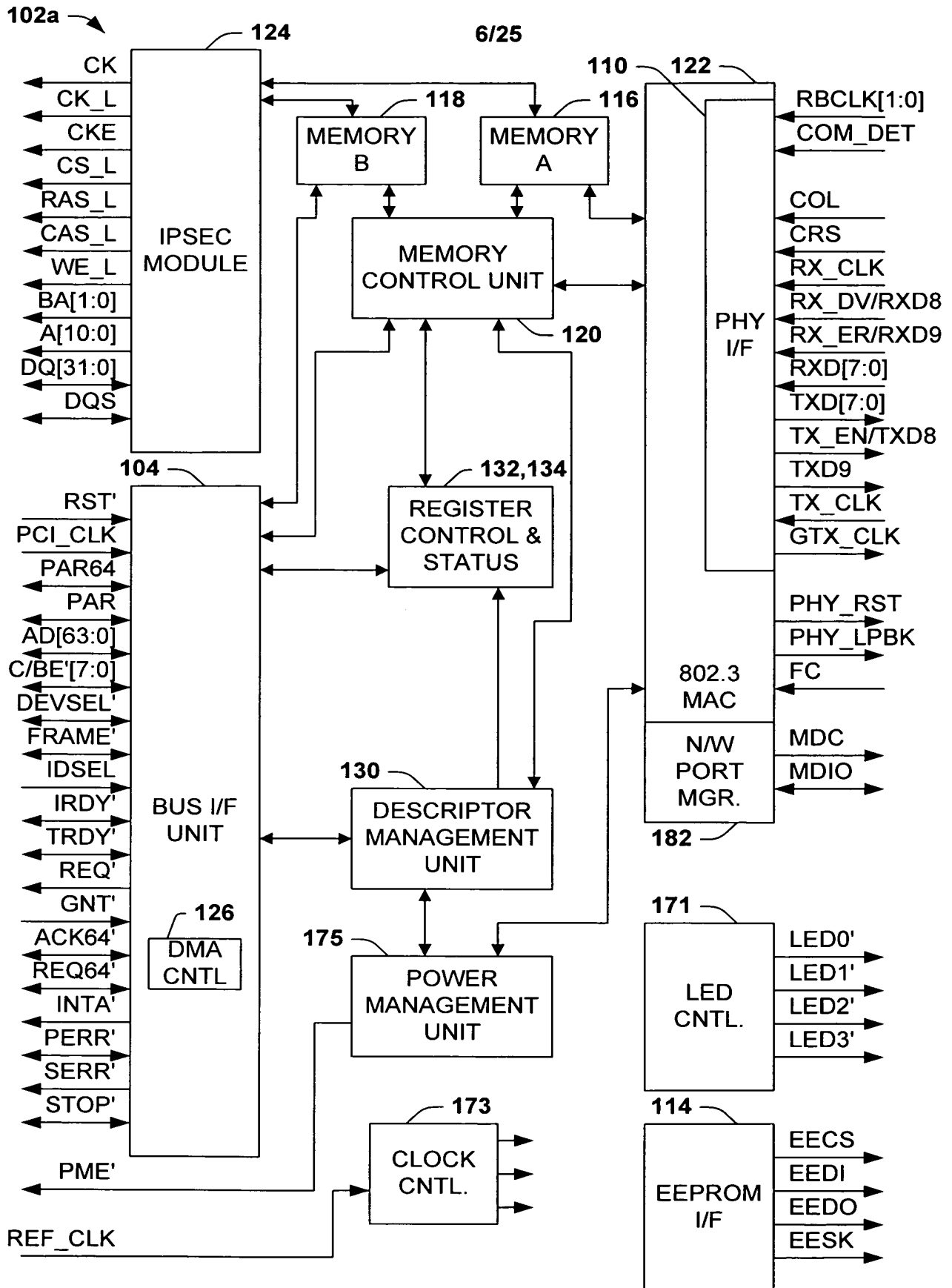
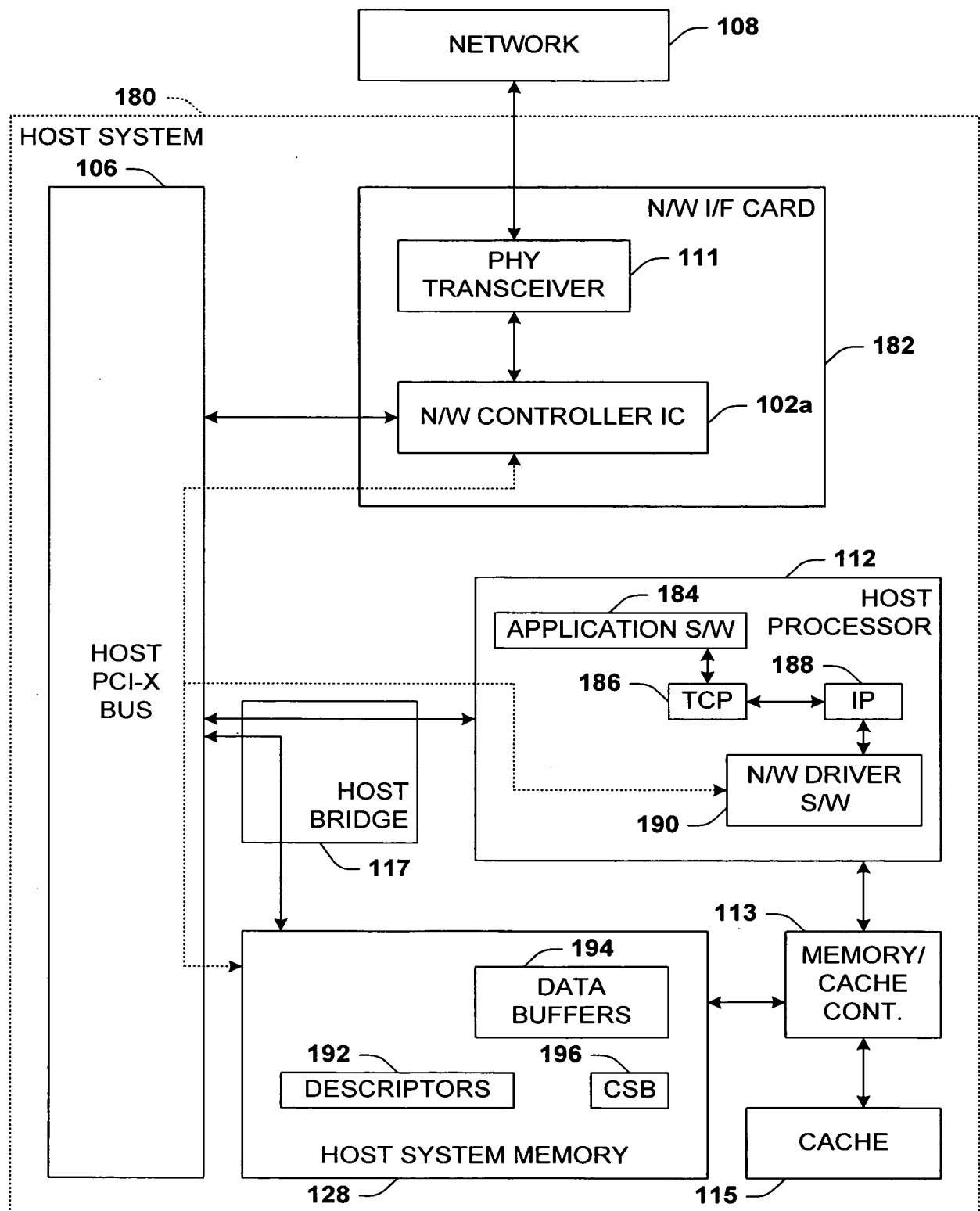
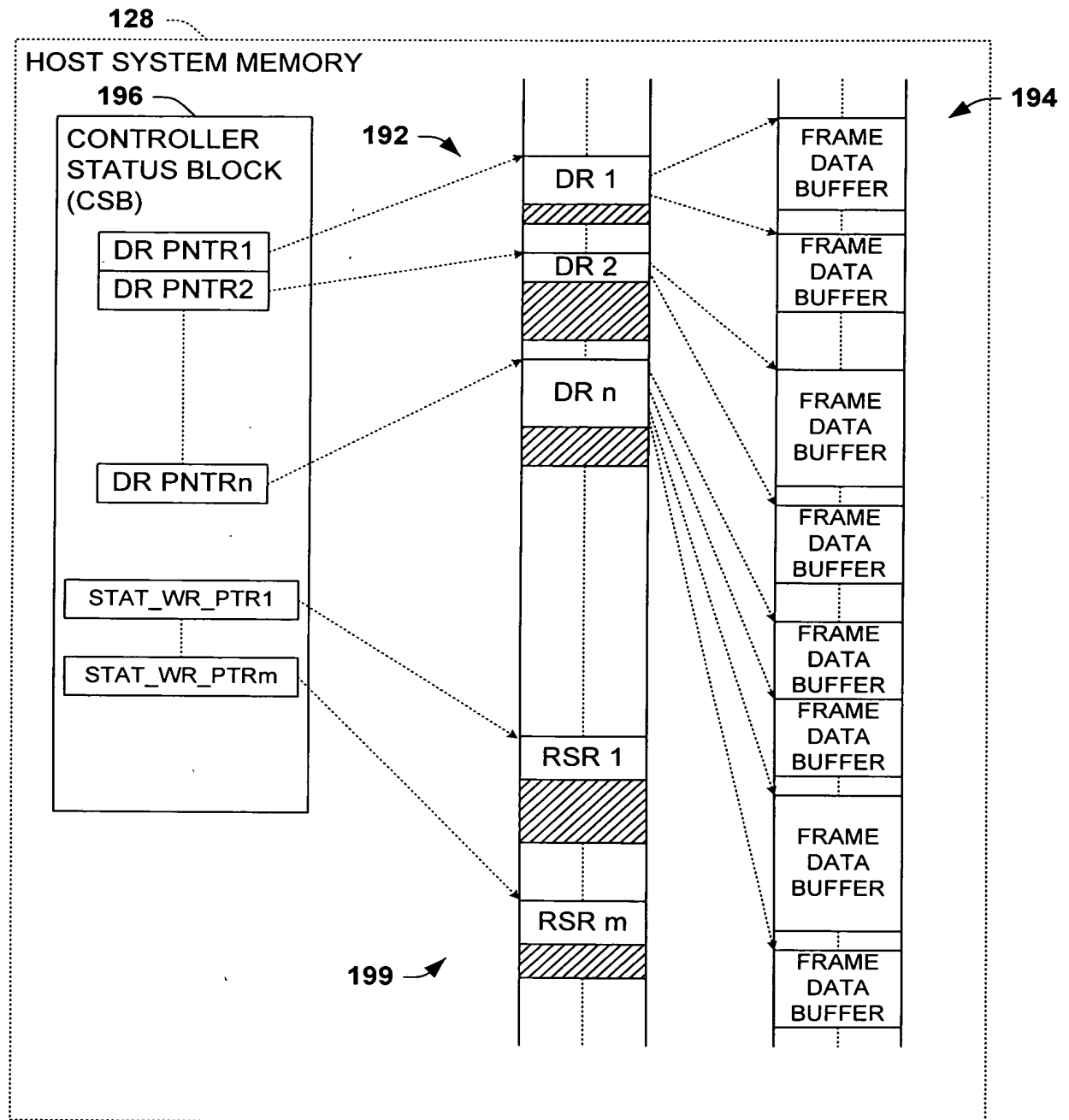


Fig. 3

**Fig. 4**

**Fig. 5A**

196

CSB

TX_RD_PTR0
TX_RD_PTR1
TX_RD_PTR2
TX_RD_PTR3
STAT_WR_PTR0
STAT_WR_PTR1
STAT_WR_PTR2
STAT_WR_PTR3
INT0_COPY

Fig. 5B

132

REGISTERS

RX_RING[3:0]_BASE
TX_RING[3:0]_BASE
RX_RING[3:0]_LEN
TX_RING[3:0]_LEN
TX_WR_PTR[3:0]
RX_WR_PTR[3:0]
STAT_RING[3:0]_BASE
STAT_RING[3:0]_LEN
RX_BUF_LEN
CSB_ADDR

Fig. 5C

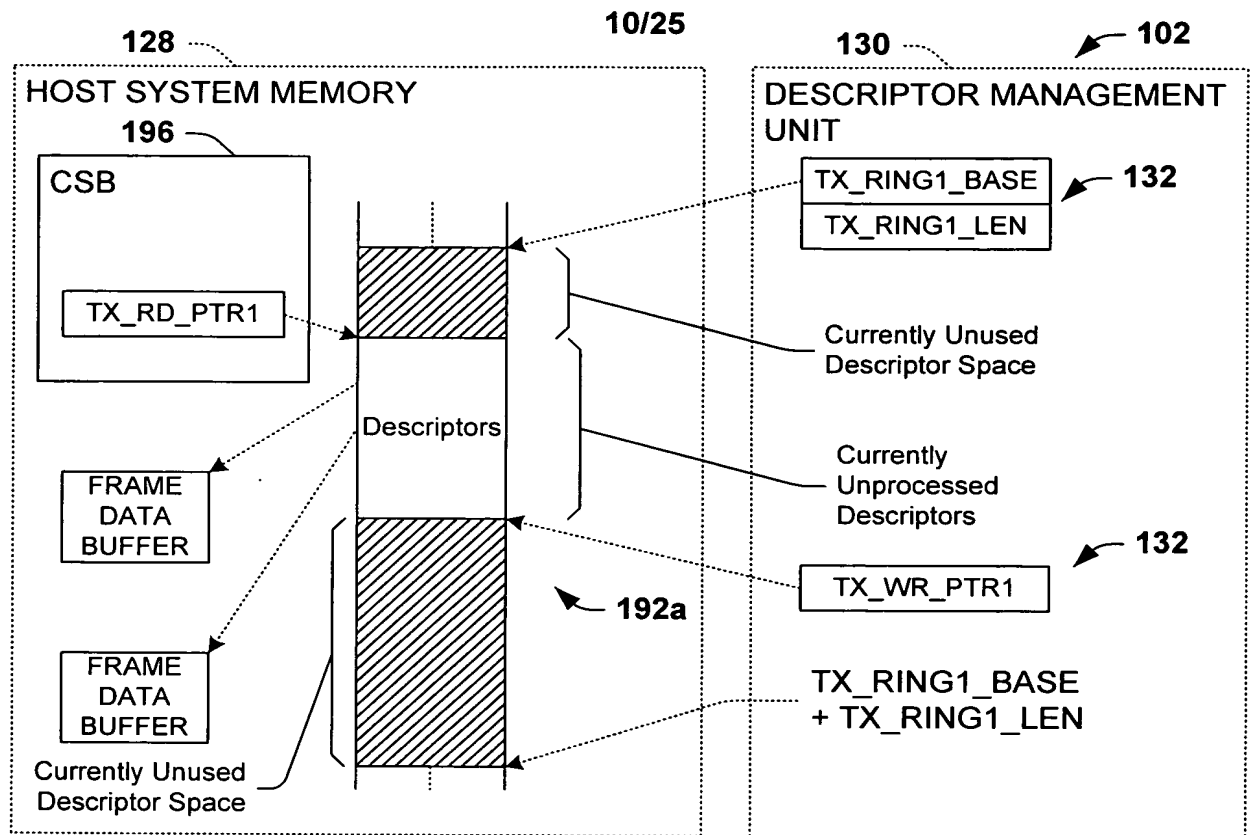


Fig. 5D

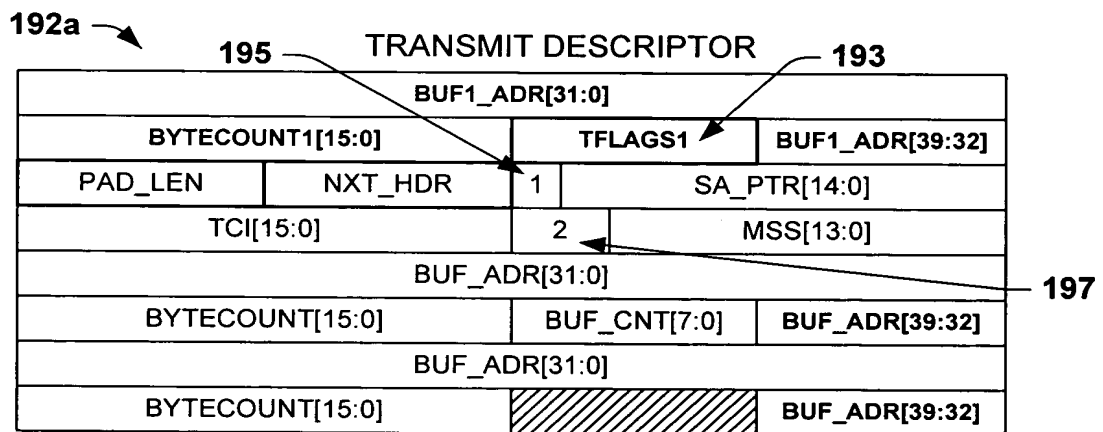


Fig. 5E

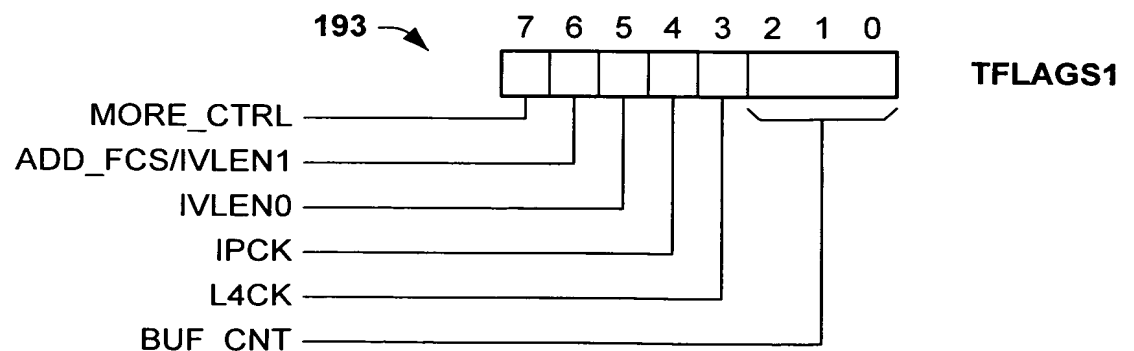


Fig. 5F

192b →

RECEIVE DESCRIPTOR

BUF_ADR[31:0]		
RES	BUF_MULT[7:0]	BUF_ADR[39:32]

Fig. 5G

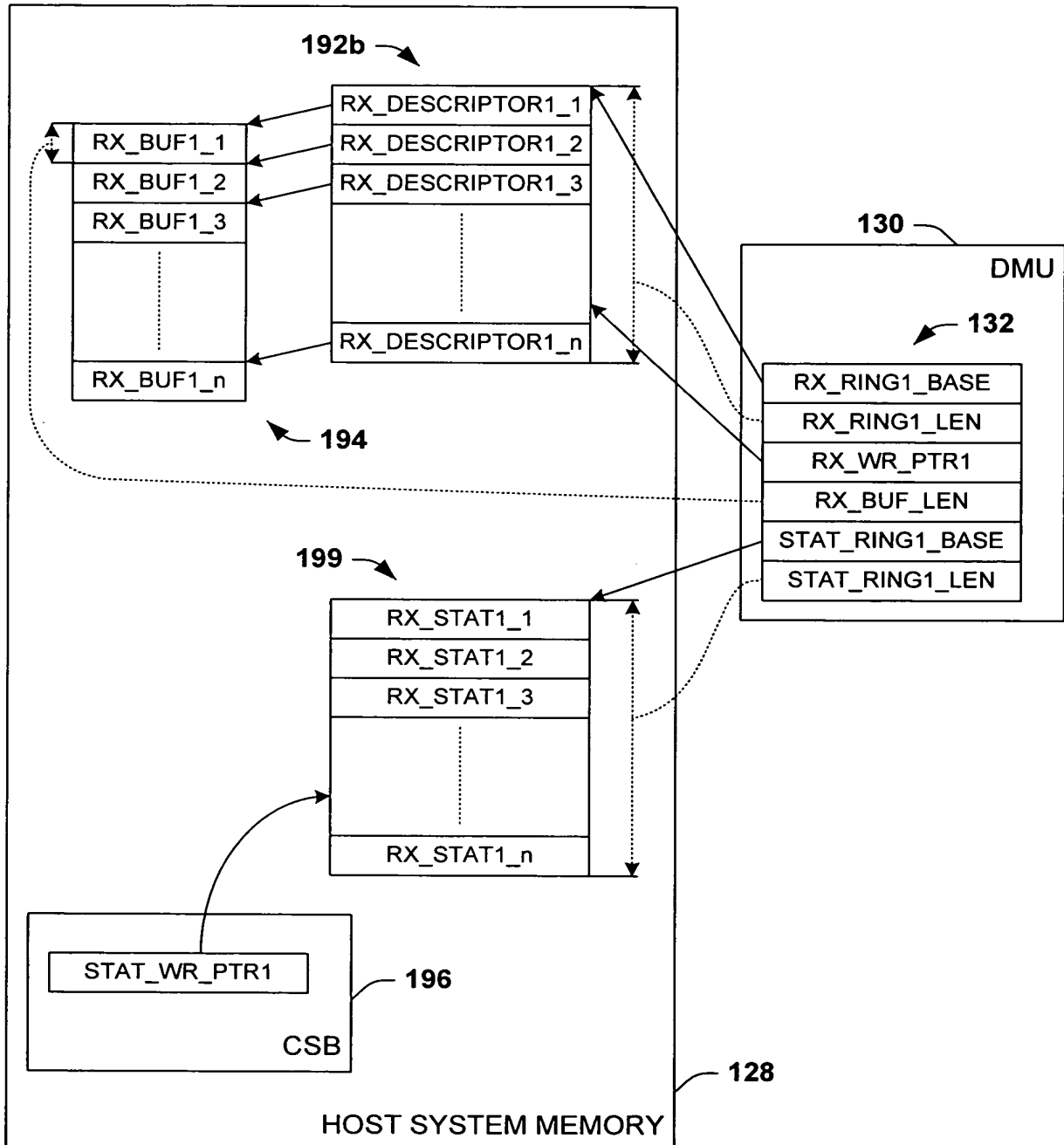
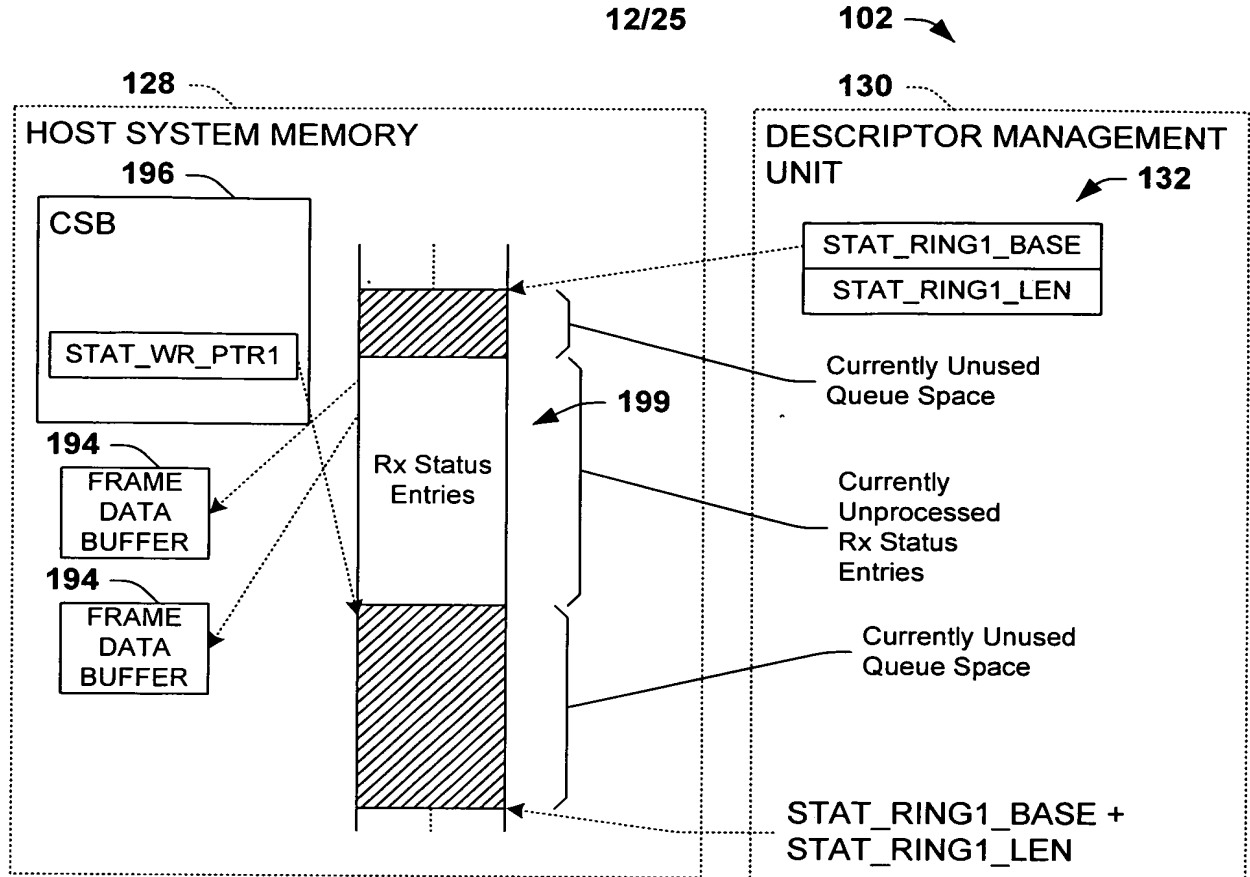
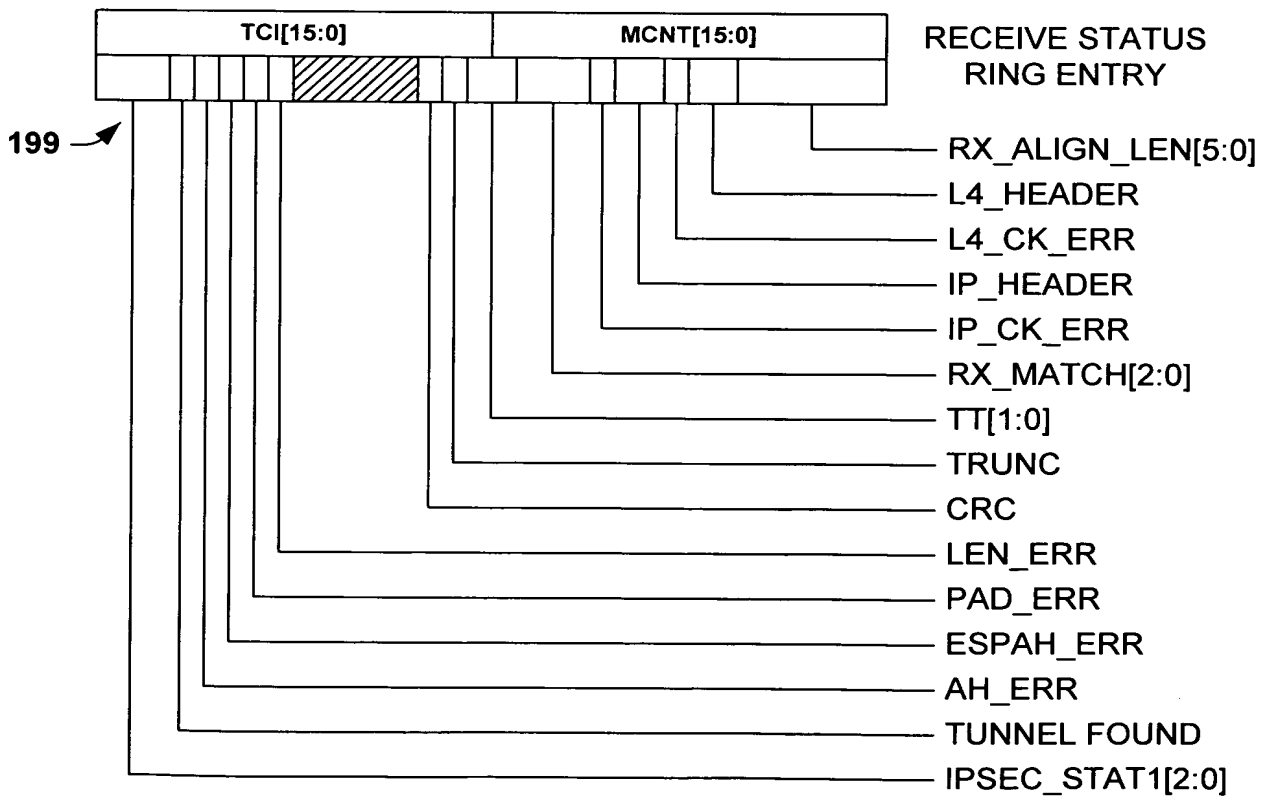


Fig. 5H

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**Fig. 5I****Fig. 5J**

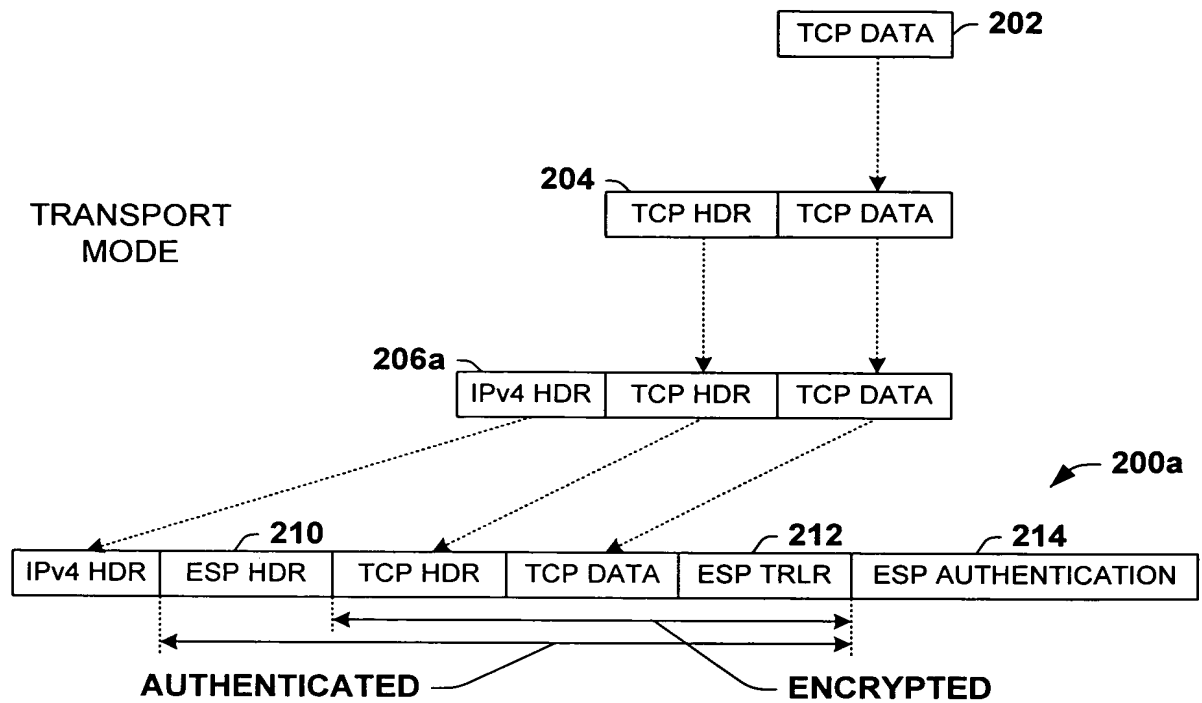


Fig. 6A

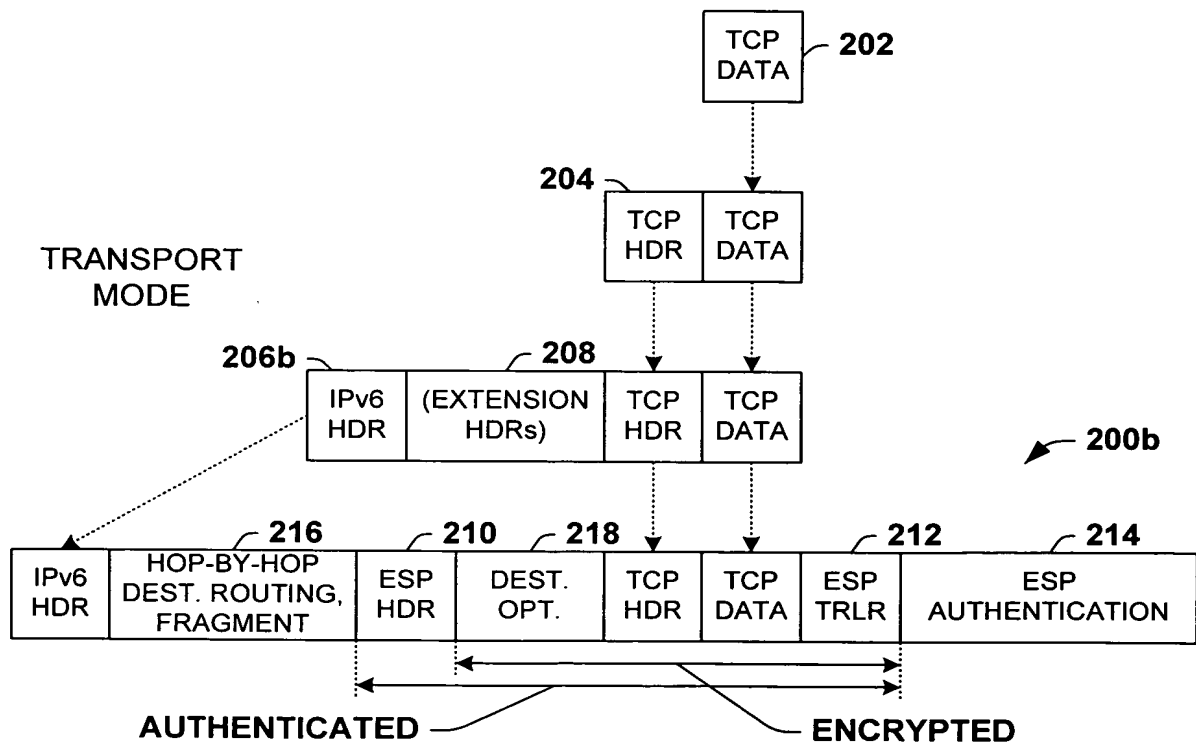


Fig. 6B

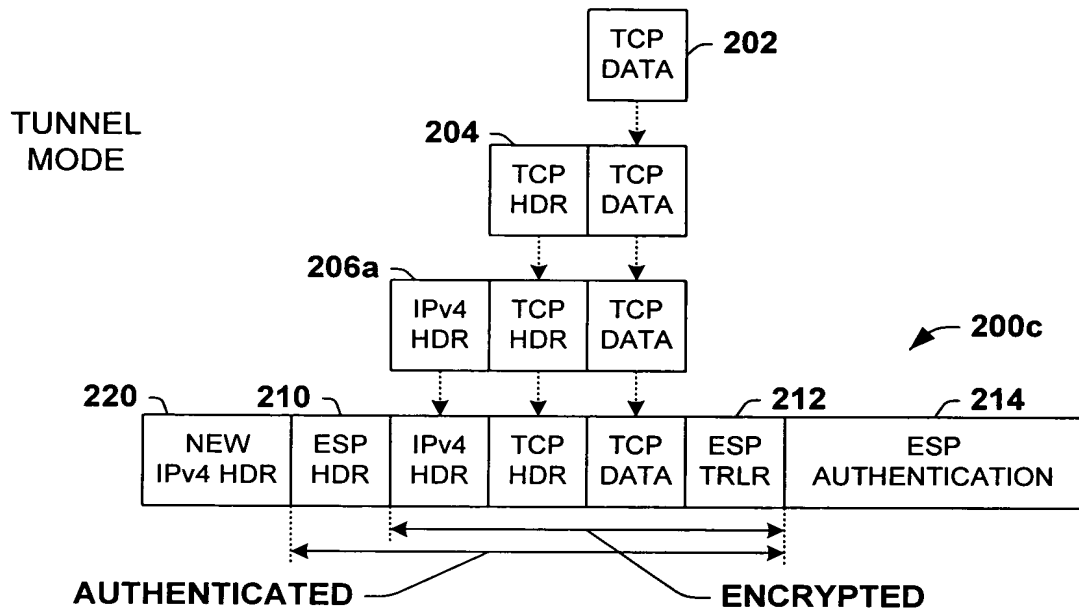


Fig. 6C

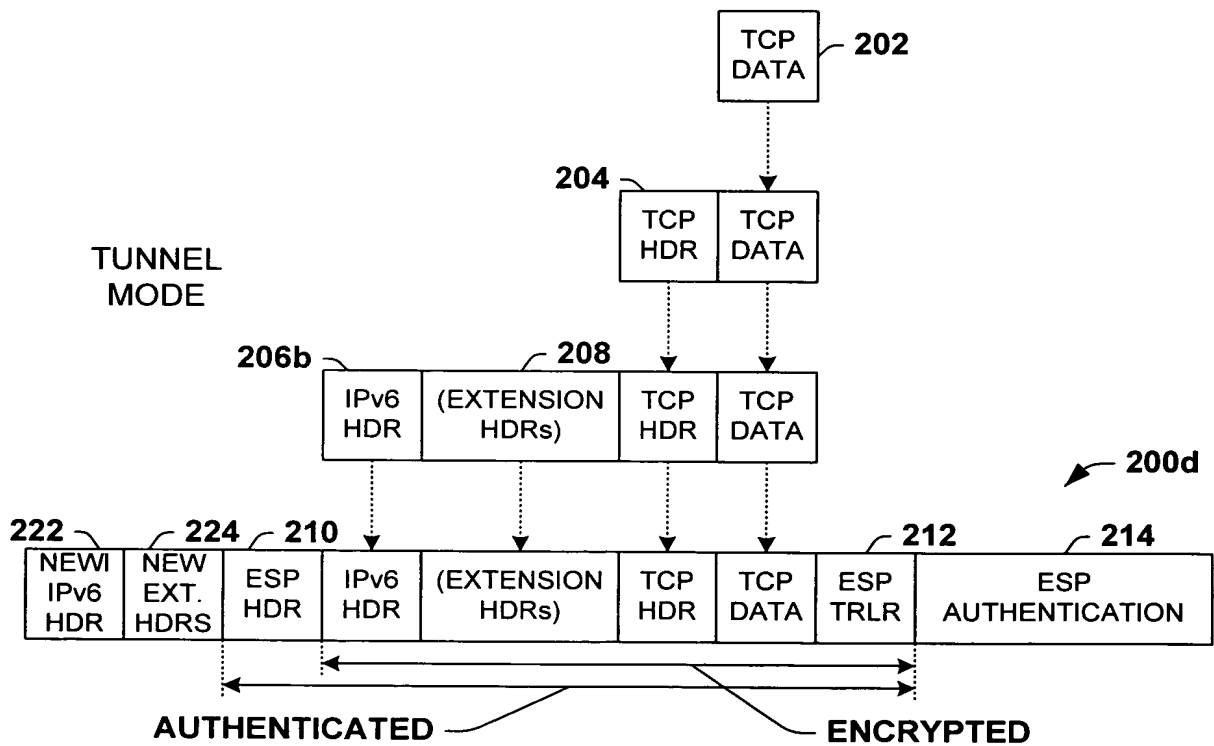
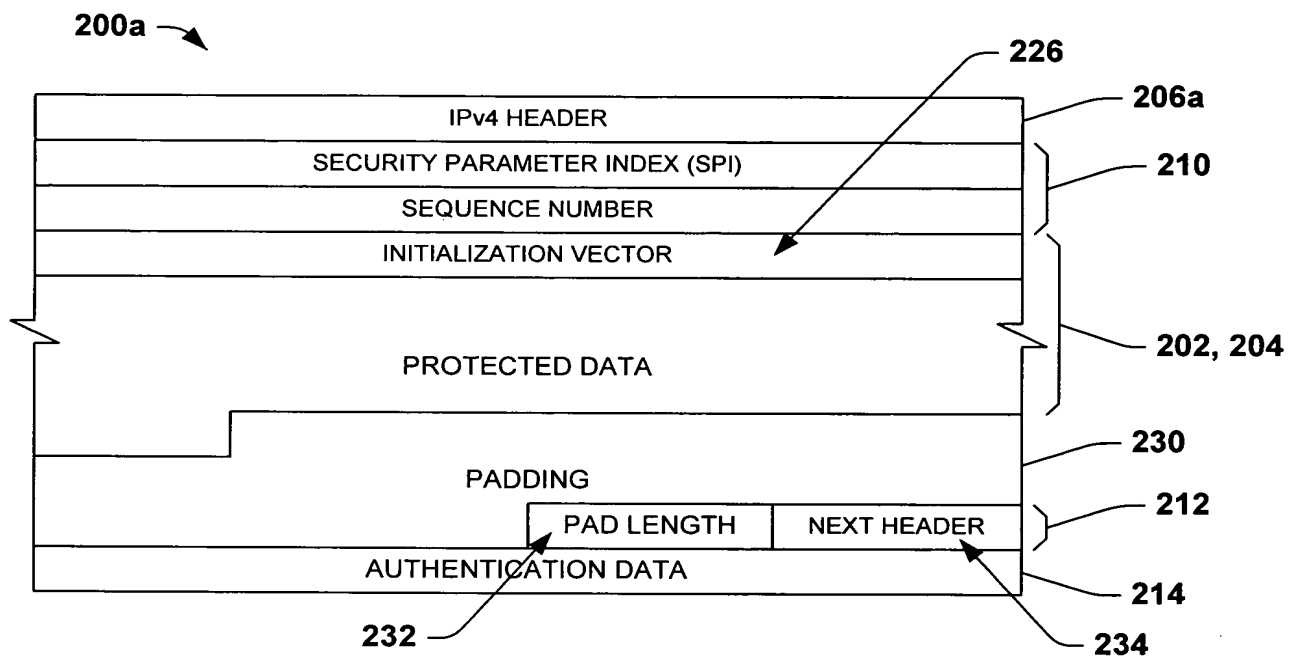


Fig. 6D

**Fig. 6E**

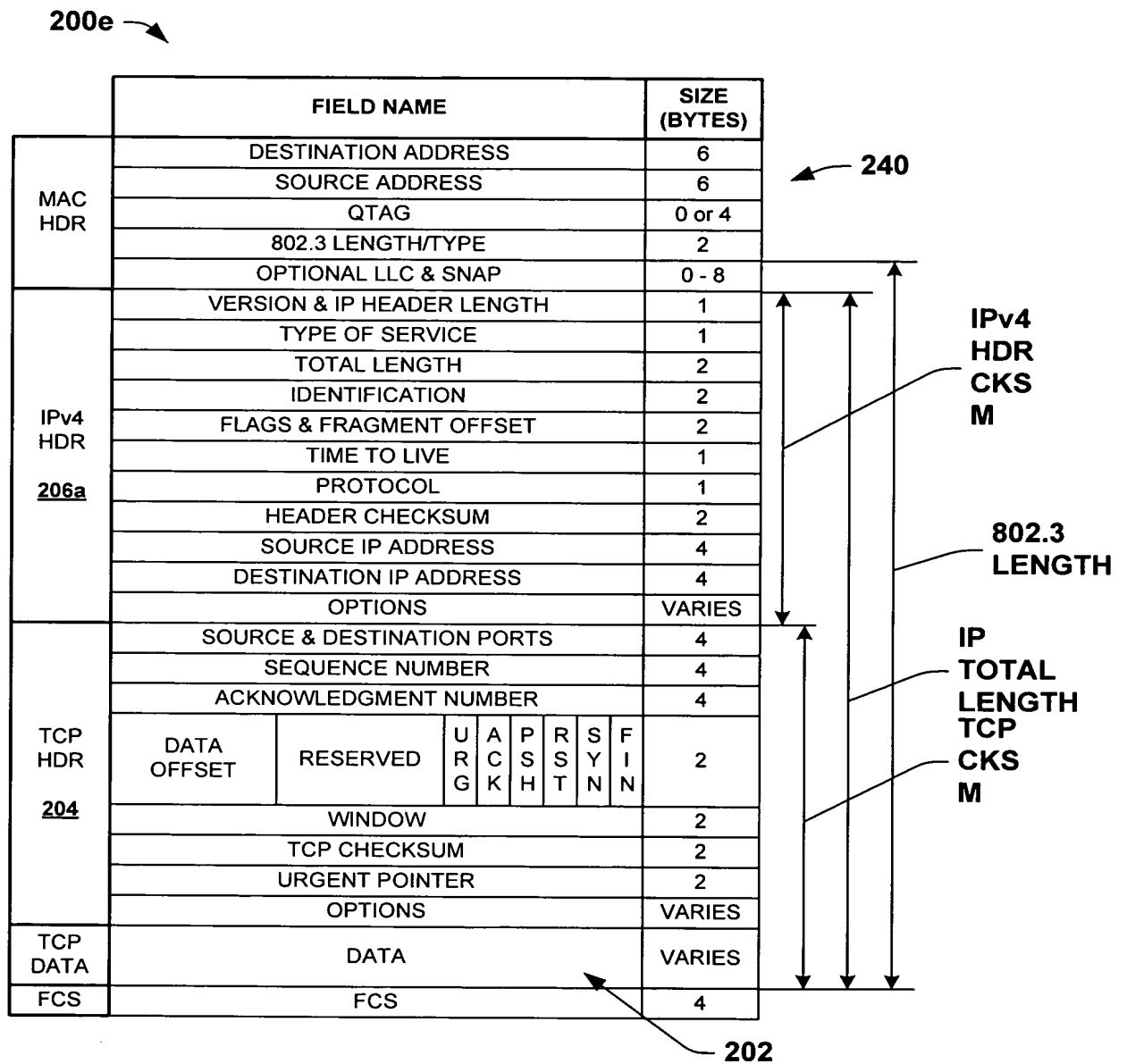


Fig. 7A

200f

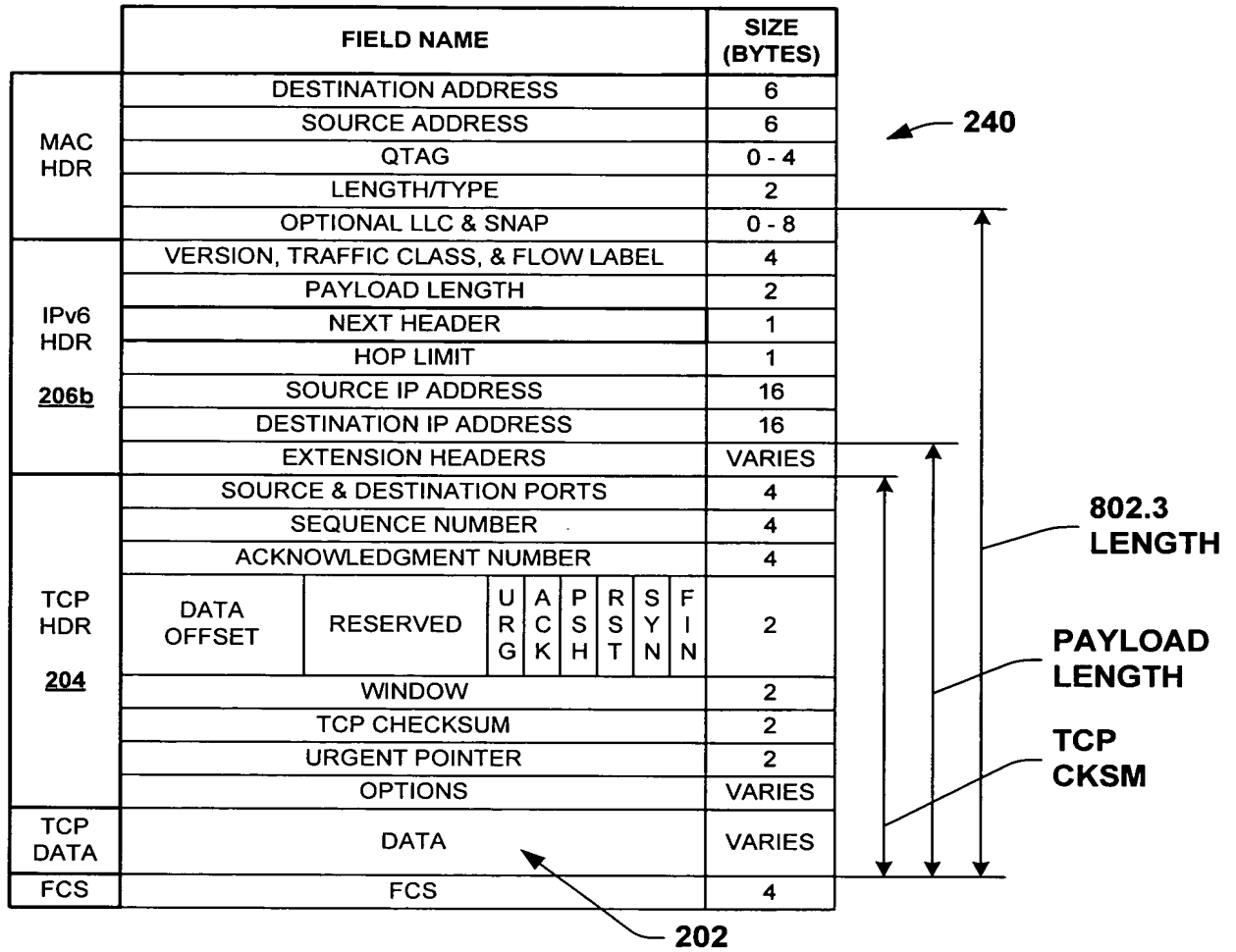


Fig. 7B

250 →

FIELD NAME	Created by Host	Modified by ESP	Encrypted	Covered by ESP Authentication	Added by Controller
Preamble					x
Start of Frame Delimiter					x
MAC Header	x				
IP Header	x				
ESP Header	x			x	
Payload Data	x	x	x	x	
Padding	x	x	x	x	
Pad Length	x	x	x	x	
Next Header	x	x	x	x	
Authentication Data	x	x			
Frame Check Sequence					x

Fig. 8A

252 →

FIELD NAME	Created by Host	Modified by AH Module	Covered by AH Authentication	Added by Controller
Preamble				x
Start of Frame Delimiter				x
MAC Header	x			
IP Header	x		x	
AH Header	x	x	x	
Other Headers	x		x	
Payload Data	x		x	
Frame Check Sequence				X

Fig. 8B

254 →

PHCKSM FOR IPv4	
32-BIT IP SOURCE ADDRESS	
32-BIT IP DESTINATION ADDRESS	
ZERO	PROTOCOL
TCP TOTAL LENGTH	

Fig. 8C

256 →

PHCKSM FOR IPv6	
128-BIT IP SOURCE ADDRESS	
128-BIT IP DESTINATION ADDRESS	
16-BIT TCP TOTAL LENGTH	
ZERO	PROTOCOL

Fig. 8D

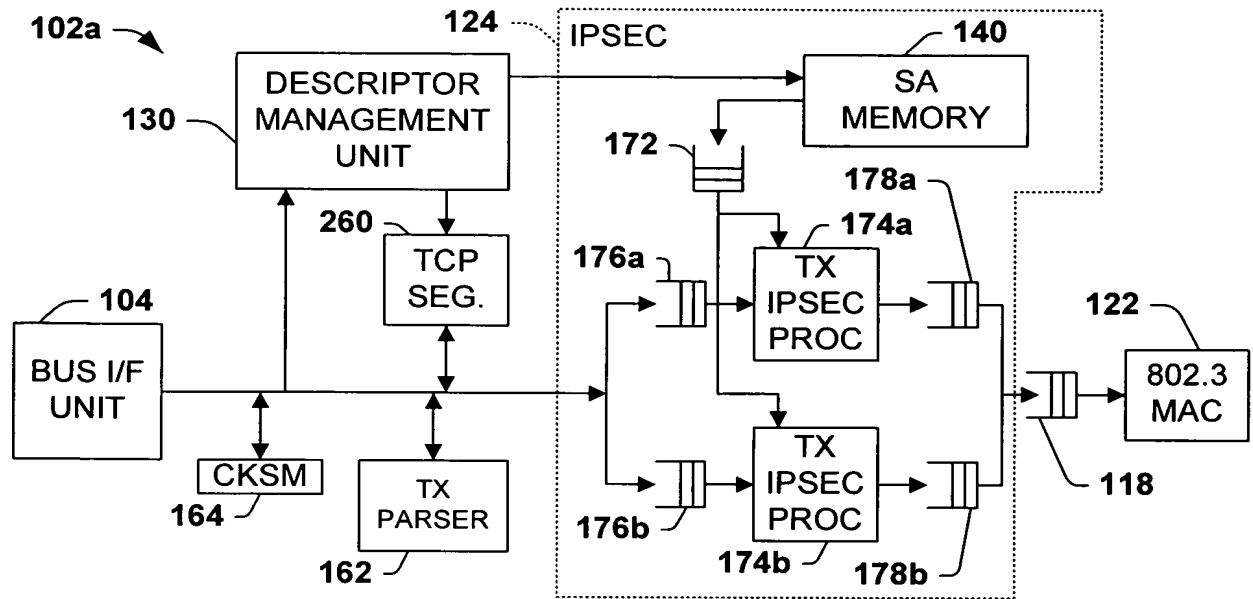


Fig. 9

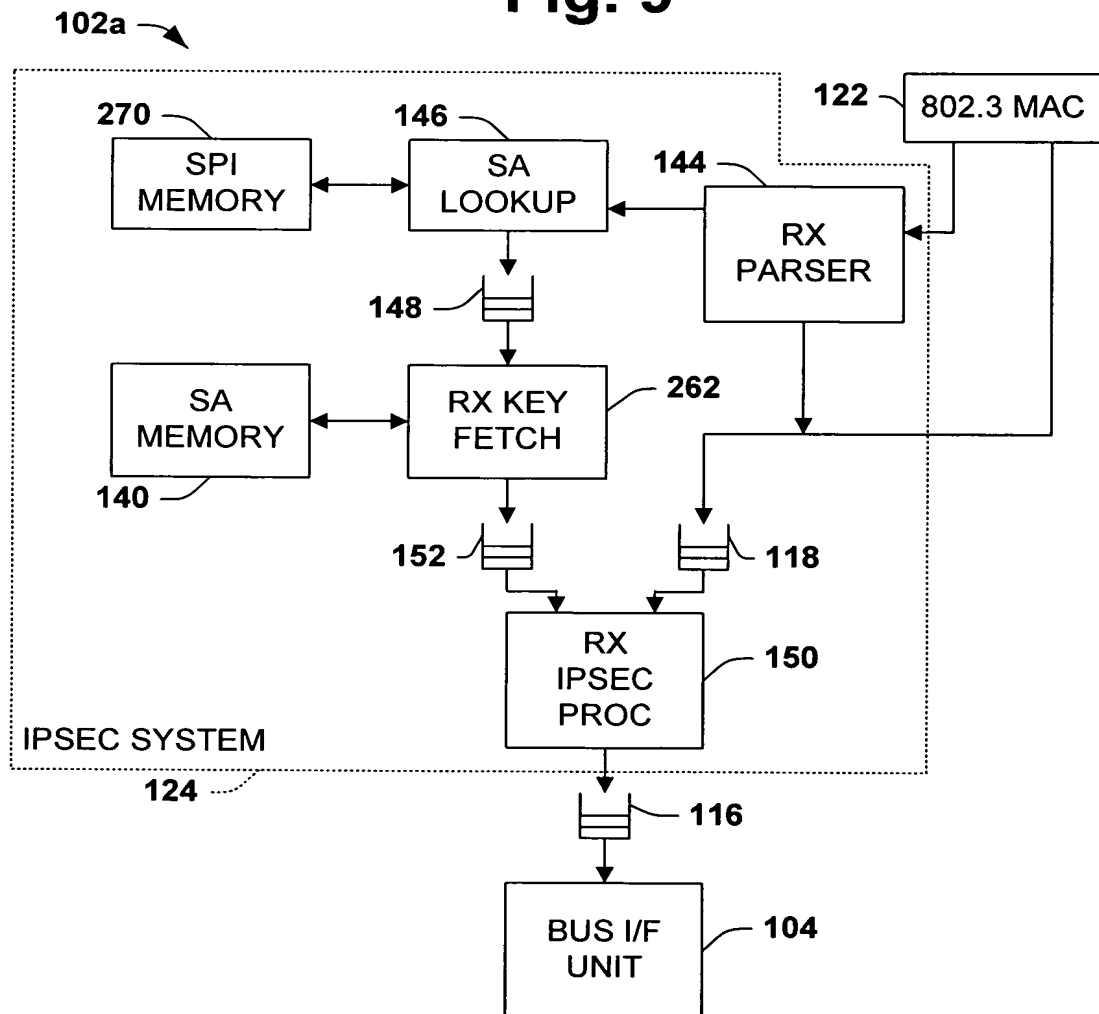


Fig. 10

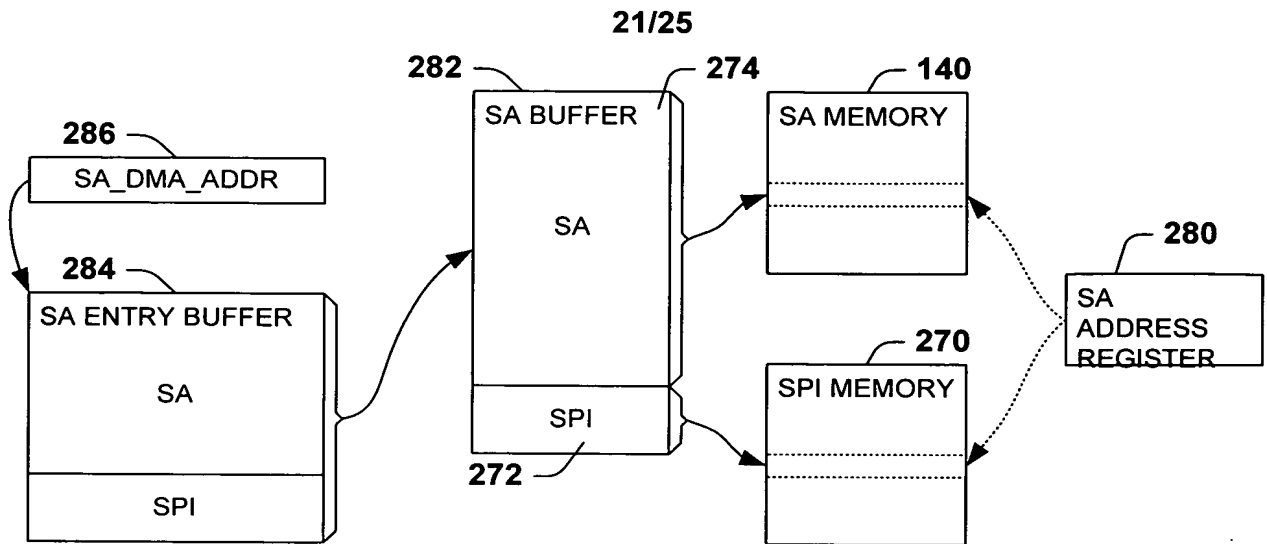


Fig. 11A

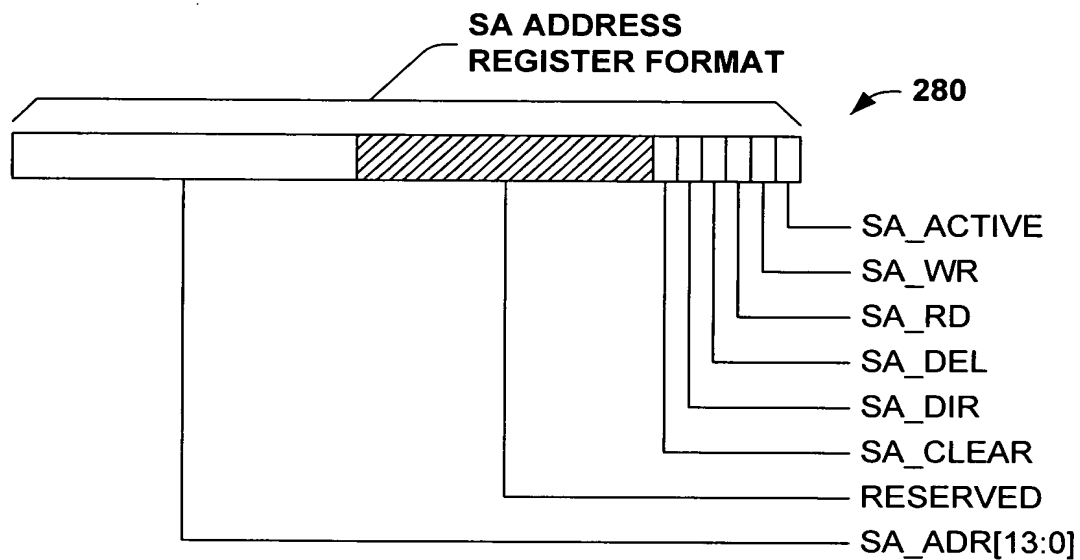


Fig. 11B

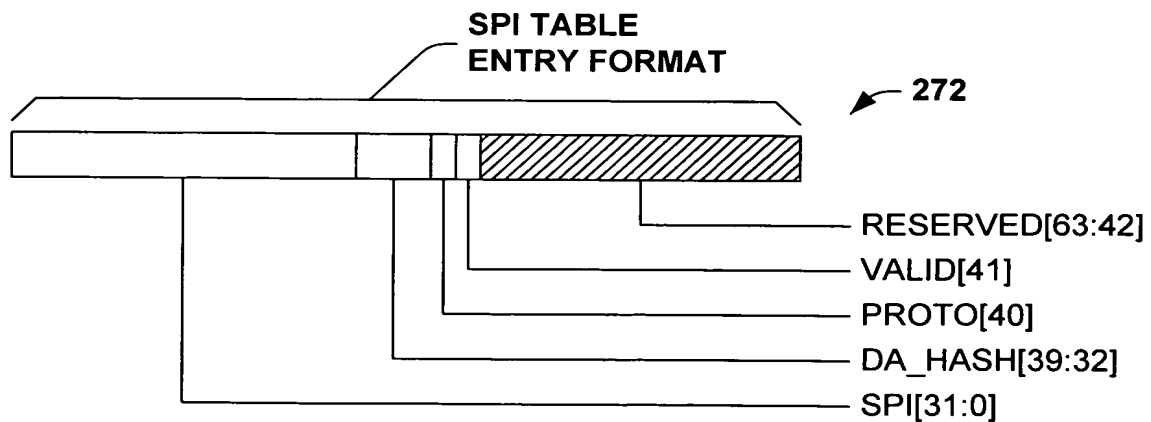


Fig. 11C

140 →

SA MEMORY ENTRY

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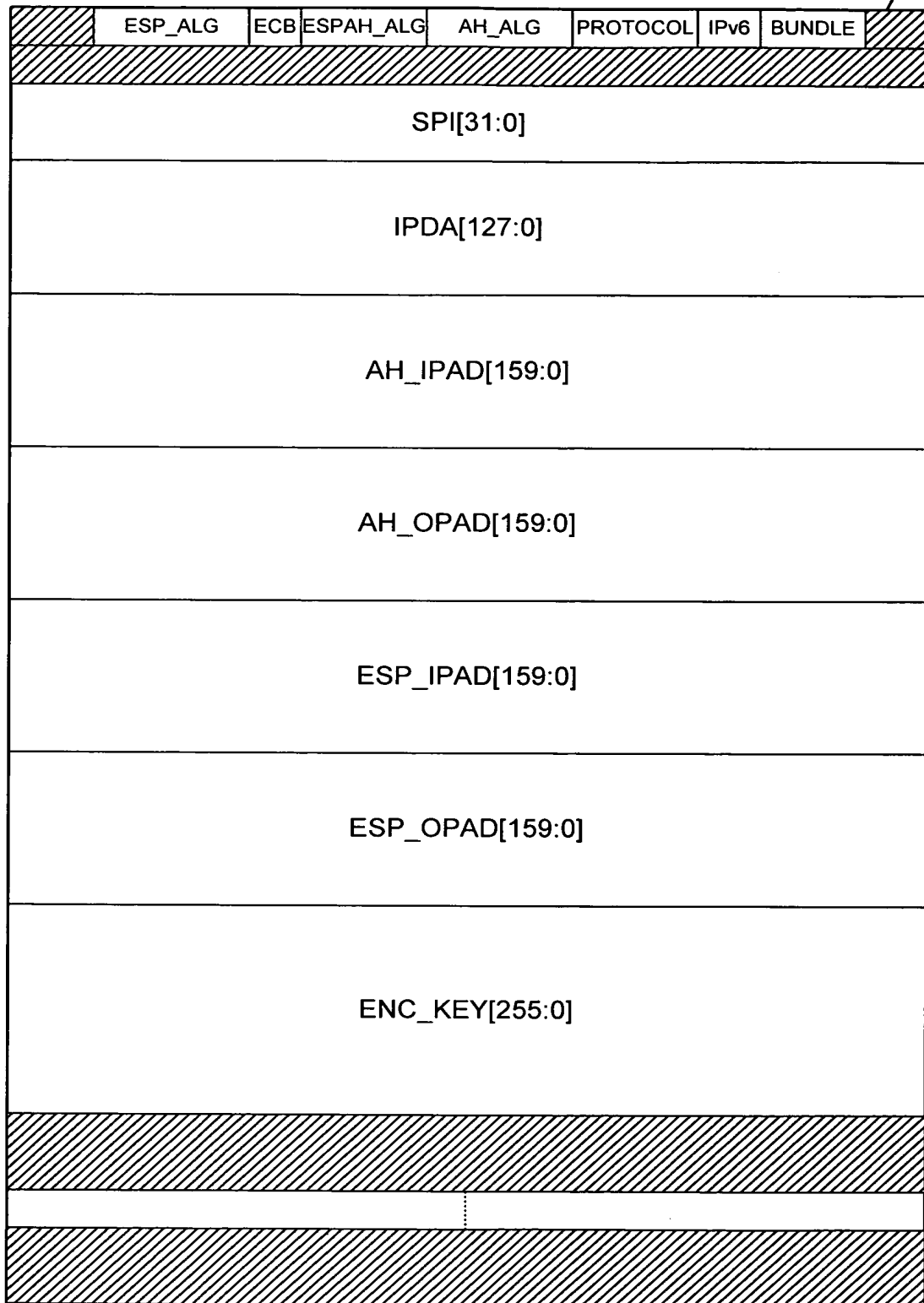


Fig. 11D

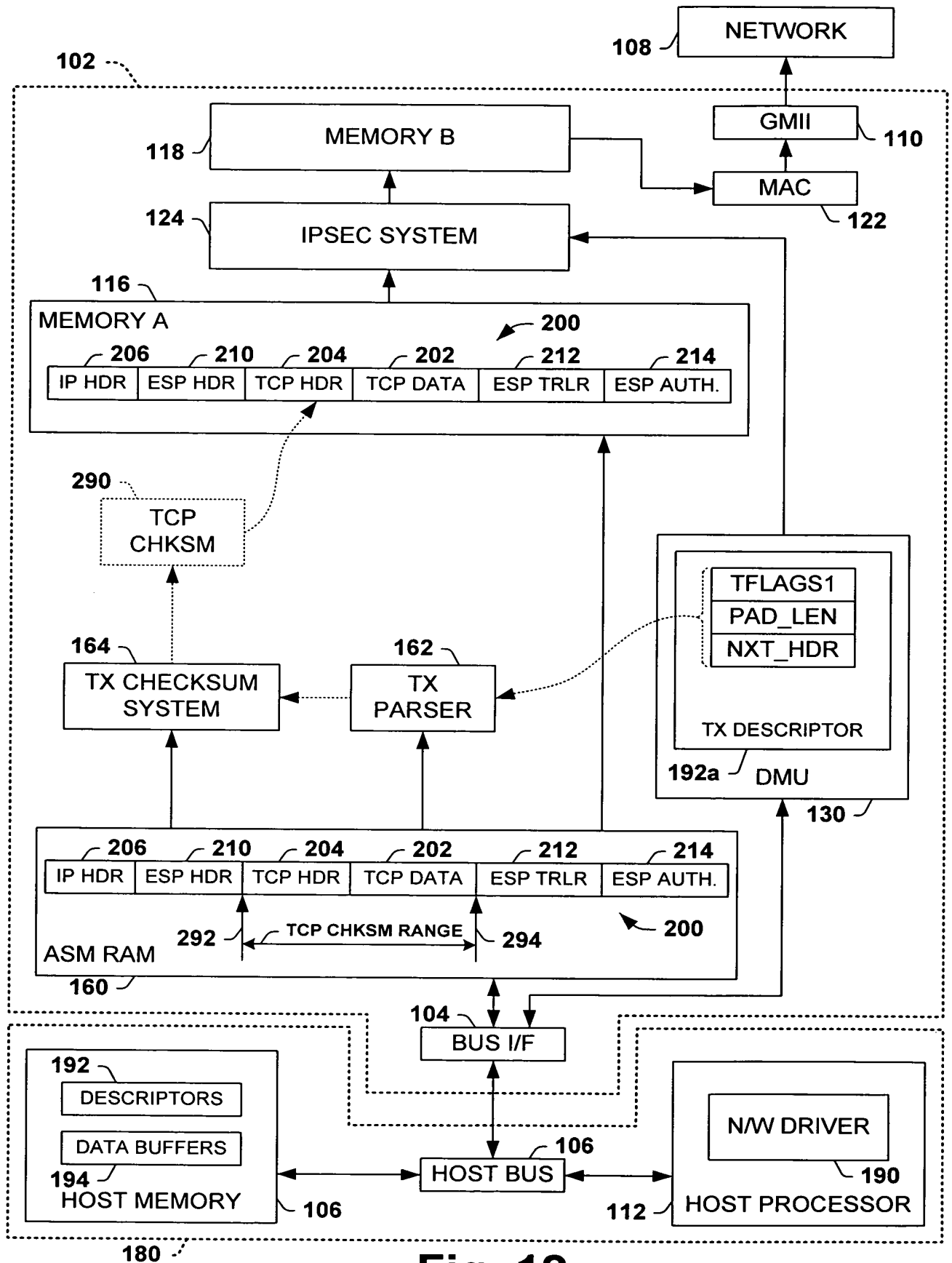
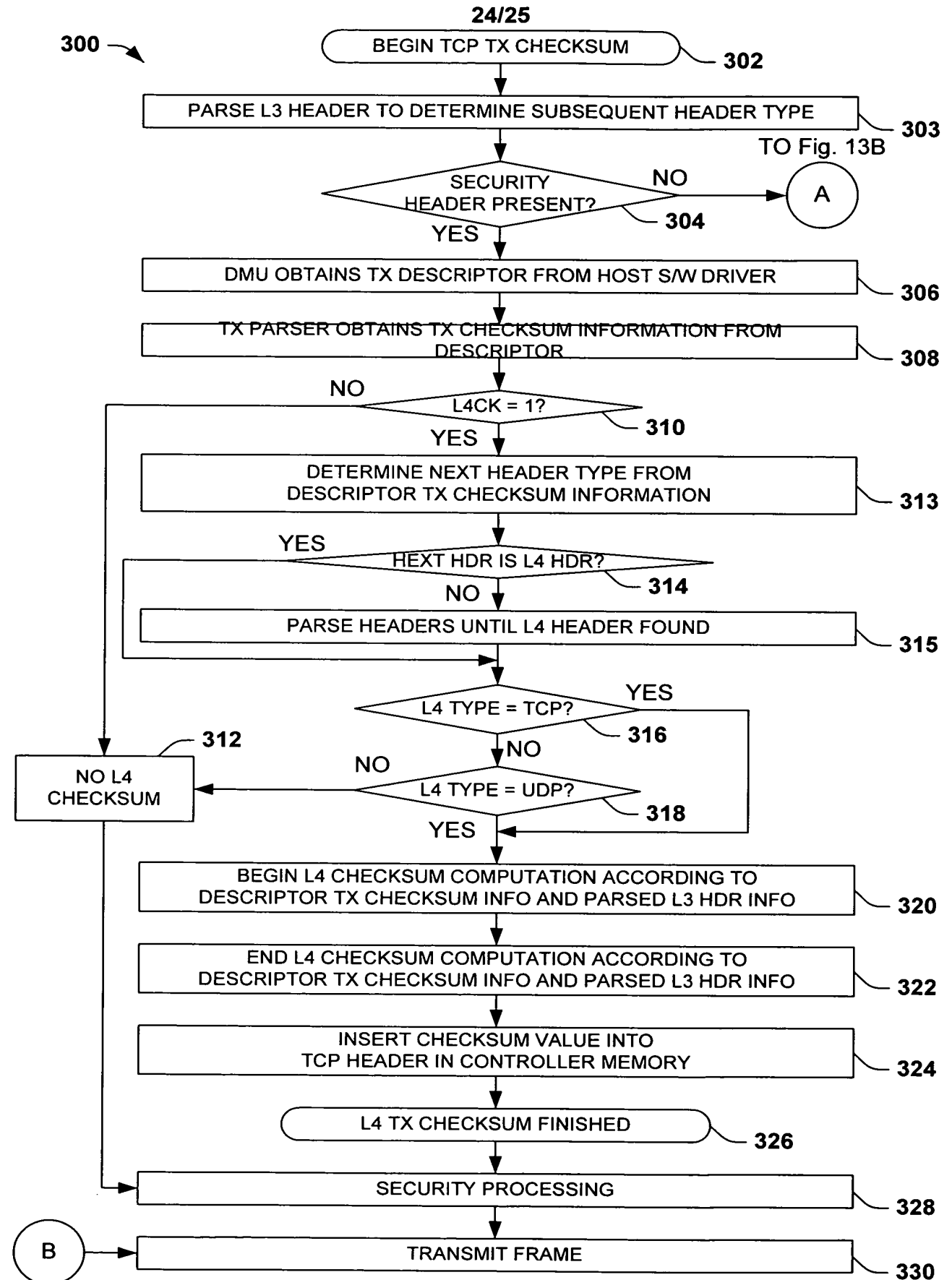
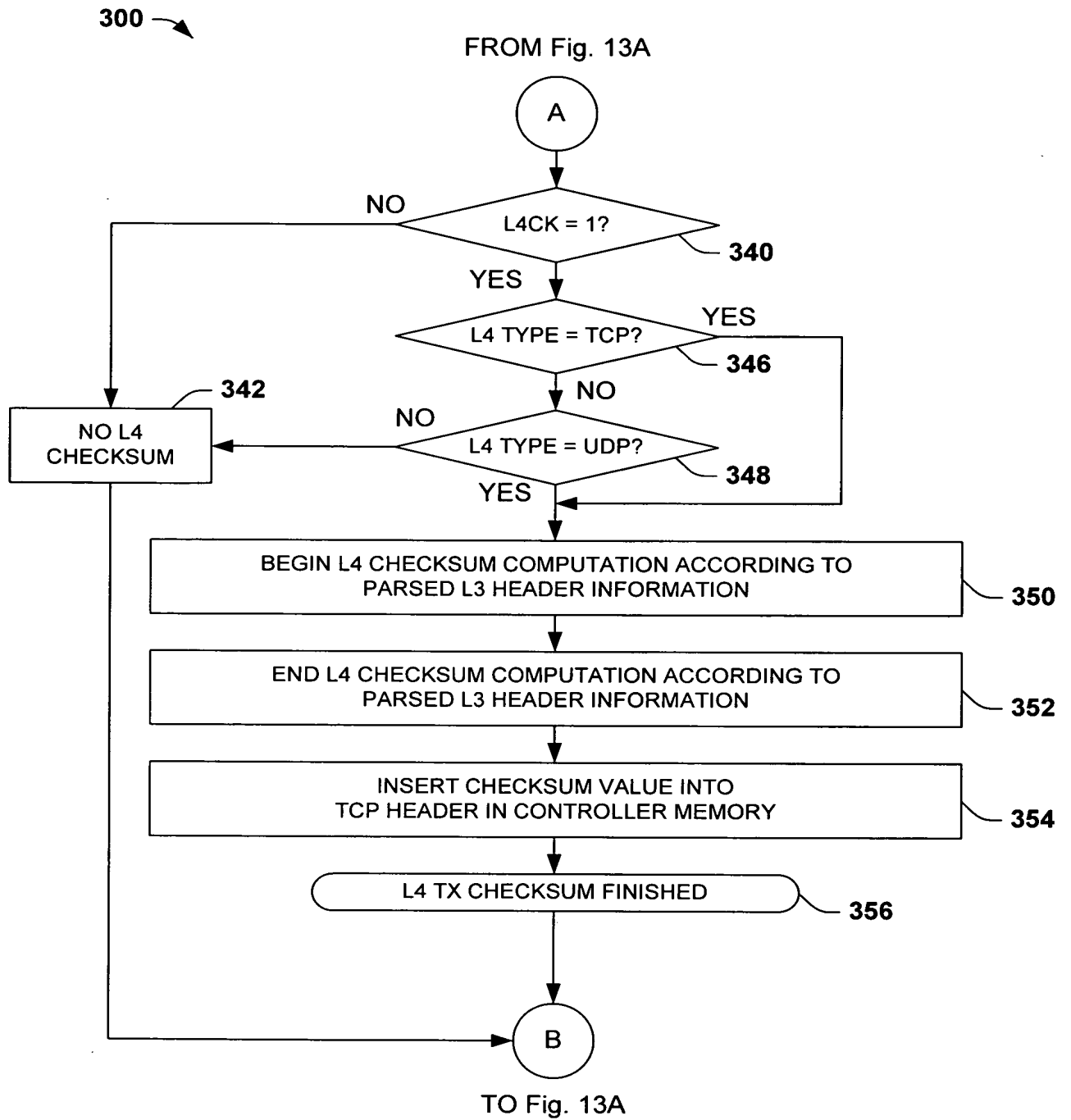


Fig. 12



FROM Fig. 13B

Fig. 13A

**Fig. 13B**